

#62

F-7038



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Uemura KENSUKE, et al.

Serial No. : 09/893,138

Filed : June 28, 2001

For : SURFACE MODIFICATION PROCESS ON  
METAL DENTURES, PRODUCTS PRODUCED  
THEREBY, AND THE INCORPORATED  
SYSTEM THEREOF

Group Art Unit : 3732

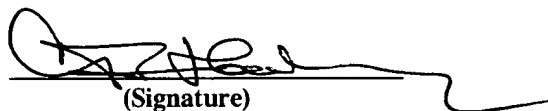
Examiner : Almaz Sahle

ATTACHED TO  
PETITION  
UNDER  
37 CFR 1.137(b)

Certificate of Mailing Under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231 on September 5, 2002.

C. Bruce Hamburg  
(Name)

  
(Signature)

Assistant Commissioner for Patents  
Washington, D.C. 20231

Preliminary Amendment

Sir:

Please amend this application as follows:

RECEIVED  
SEP 16 2002  
OFFICE OF PETITIONS

**IN THE ABSTRACT:**

Amend the abstract as shown on the sheet appended hereto, the amendments being shown by brackets in the Appendix hereto.

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**ABSTRACT OF THE DISCLOSURE**

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A<sub>1</sub> A Pulsed Electron Beam System is developed and applied for the surface modification of the metal and/or partial metal dentures. The system is consisted with an explosive emission cathode, accelerating gap formed by the cathode and plasma anode, and an electron collector where the metal and/or partial metal dentures are fixed, and placed into a magnetic field. The method can provide a modified metal and/or partial metal denture surface with high reflectance as a mirror polished surface and high corrosion resistance.

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